

A I

PAT-NO: JP406098505A
DOCUMENT-IDENTIFIER: JP 06098505 A
TITLE: MAGNETIZING METHOD OF SMALL-SIZED MOTOR ROTOR
PUBN-DATE: April 8, 1994

INVENTOR-INFORMATION:

NAME COUNTRY
HAYASHI, MASA AKI

ASSIGNEE-INFORMATION:

NAME COUNTRY
SEIKO EPSON CORP N/A

APPL-NO: JP04243593
APPL-DATE: September 11, 1992

INT-CL (IPC): H02K015/03

US-CL-CURRENT: 29/606

ABSTRACT:

PURPOSE: To obtain a small-sized motor, in which the abrasion resistance of a magnetizing jig is improved while the magnetizing properties of a rotor are enhanced, by forming a hard layer onto the surface of the core section of the magnetizing jig and magnetizing the hard layer.

CONSTITUTION: Eight notched grooves 4 are formed to the inner periphery of the hole section of a magnetizing jig 1 in the direction of the insertion of a motor rotor 14, and a core is plated through an ion plating PVD method or component substances are changed into evaporated ions by an arc source or an ion plasma source, thus forming a hard coating in 1 μ m thickness on a surface at a heat treatment temperature of 400-510°C. The linear sections of wire rods bent in a U shape in conformity with the pitches of the notched grooves 4 are inserted into the notched grooves 4, the adjacent terminals of the wire rods are bound and soldered at three positions by solderless terminals 10 while bent sections 7 are located on the core 2 and terminal sections are directed downward, and residual wire-rod terminals are bound with leads, to which voltage is applied. The bent sections 7 and terminal bound sections 12 are molded by an insulator 13 for holding a coil, the rotor 14 is inserted, voltage is applied, and the rotor is magnetized.

COPYRIGHT: (C)1994,JPO&Japio

(19)日本国特許庁(JP)

(12)公開特許公報(A)

(11)特許出願公開番号

特開平6-98505

(43)公開日 平成6年(1994)4月8日

(51)Int.Cl.⁵
H02K 15/03

識別記号 庁内整理番号
H 7429-5H

F I

技術表示箇所

審査請求 未請求 請求項の数2(全4頁)

(21)出願番号 特願平4-243593

(22)出願日 平成4年(1992)9月11日

(71)出願人 000002369

セイコーエプソン株式会社

東京都新宿区西新宿2丁目4番1号

(72)発明者 林 正明

長野県諏訪市大和3丁目3番5号 セイコーエプソン株式会社内

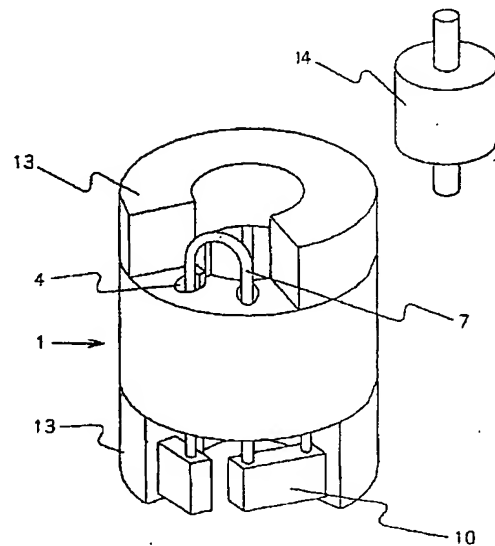
(74)代理人 弁理士 鈴木 喜三郎 (外1名)

(54)【発明の名称】 小型モーター回転子の着磁方法

(57)【要約】

【目的】 着磁治具の耐摩耗性を高めた、低コストかつ高性能な小型モーター回転子を製造する手段を提供する。

【構成】 着磁治具鉄心部表面に、Hv1000以上の硬質被覆層を1 μ m以上形成させた着磁治具を用いて着磁することにより、着磁性能及び量産性が高い小型モーター回転子を得る。



【図4】

